PHI 20	010 – Team-based Assignment: Wha	t Experiments Can Do	Name:	
<u>Instru</u>	actions: Write name legibly. Explain s	so that smart people wh	o have not ta	ken our class will understand.
Expla	in the difference between experime	ents of application and	experiments o	of testing (p. 4-5):
.				- () - ()
Expla	in the relationship between "reduct	tion to absurdity" and "	experiments	of testing" (p. 5, 9-11).
	n of Duhem's concepts is most like H) experiments of application	-	ist, "method o) (a) and (b)	of hypothesis" (TBA8):
•	experiments of testing		(b), and (c)	
-	crucial experiments	•	(a), (b), and	(c)
Indica	ite whether the following statemen	ts are true or false by ເ	ınderlining on	e or the other option.
True	False Duhem thinks that we can j	falsify or confirm individ	lual hypothese	25.
True	False Duhem thinks that proof/di	isproof in physics is just	like proof/disp	proof in geometry.
Deter	mine which method(s) of testing oc	cur in the following ex	amples. Check	all that apply.
If vac	cinations cause autism, then peer-re	viewed randomized con	trol trials wou	ld reliably find correlations
	een vaccination and autism diagnose		causally relevo	ant variables. But we don't find
such (correlations. So vaccinations don't ca			
	☐ Popper's deductivist method	☐ Hempel's inductiv	ist method	☐ Duhem's holist method
-	ering taxes raises working-class livingive correlations between tax rates a	-	-	, -
raises	working class living standards, then	controlled retrospective	e studies will r	not reliably find negative
	ations between tax rates and workin			·
	ly find negative correlations between	_	_	· · ·
	doesn't raise working class living sta	_	_	
stana	ards, and/or some background assur ☐ Popper's deductivist method			wnicn. ☐ Duhem's holist method
	□ ropper s deductivist method		/ist iiietiil00	☐ Dunein S noilSt method

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If intelligence is at least partially genetic, then twin studies and full-genome analyses would repeatedly find substantial correlations between genetic variables and measures of intelligence, controlling for other causall
relevant variables. We do reliably find these correlations. So intelligence is probably at least partly genetic.
☐ Popper's deductivist method ☐ Hempel's inductivist method ☐ Duhem's holist method
Complete the logic of the following arguments as if they were crucial experiments:
If light is particles, then green light will be <u>left</u> of the colorless light in the turning mirror experiment.
If light is wave vibration, then green light will be <u>right</u> of the colorless light in the turning mirror experiment.
We observed that the green was <u>right</u> of the colorless light.
So,is false
and is true.
If light is particles, then green light will be <u>left</u> of the colorless light in the turning mirror experiment.
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We observed that the green was <u>left</u> of the colorless light.
So, is false
and is true.
Explain the key difference between crucial experiments and Duhem's (holist) view of experiments.
Complete the following modus tollens arguments as Duhem would: If [various assumptions] and [a scientific hypothesis] is true, then we will observe [some observable outcome].
So,is false.
Complete the following medus tellons arguments
Complete the following modus tollens arguments. Your phone (computer is unable to connect to the WiFi (even though it accents your Wifi nassword)
Your phone/computer is unable to connect to the WiFi (even though it accepts your Wifi password). If the problem is that you are too far from the router, then standing pert to the router will fix it.
If the problem is that you are too far from the router, then standing next to the router will fix it.
If the problem is that the router lost connection to the internet, then standing next to the router will not fix it
Standing next to the router did not fix it.
So, the problem is not

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Your phone/computer is still not on WiFi (but it accepts your password and you're standing next to the router). If the problem is that the router lost connection to the internet, then rebooting the router will fix it. If the problem is distortion from surrounding WiFi networks, then rebooting the router will not fix it. Rebooting the router did not fix it. So, the problem is not
Your phone/computer is still not on WiFi (but it accepts your password, you're standing next to the router, etc.) If the problem is distortion from surrounding WiFi networks, then changing the router's WiFi channels will fix it. If the problem is with your phone/computer, then changing the router's WiFi channels will not fix it. We observed that changing the router's WiFi channels did not fix it. So, the problem is not
Your phone/computer is still not on WiFi (but it accepts your password, you're standing next to the router, etc.) If the problem is with your ISP, then calling your ISP to have them reset your signal will fix it. If the problem is your phone, then calling your ISP to have them reset your signal will will not fix it. Calling your ISP to have them reset your signal fixed it. So, the problem was not
Did you just test isolated hypotheses about WiFi? What does that mean for Duhem's thesis? Explain.
In your own words, explain what we cannot infer with Duhem's holist method of testing (see Duhem's title).
Explain the key difference between Popper's deductivist and Hempel's inductivist method of testing.
Explain the key difference between Popper's/Hempel's methods and Duhem's holist method of testing.